

What is claimed is:

- 1 1. An agricultural system comprising:
2 a motorcycle drive unit and a tool assembly; said motorcycle drive unit adapted for
3 removable attachment to said tool assembly, wherein said agricultural system is capable of
4 farming.
- 1 2. The system of claim 1 wherein the tool assembly further comprises:
2 a structural chassis; and
3 an axle having first and second ends.
- 1 3. The system of claim 2 wherein the tool assembly further comprises:
2 a first wheel disposed at said first end of said axle; and
3 a second wheel disposed at said second end of said axle.
- 1 4. The system of claim 3 further comprising a transmission unit comprising a differential
2 gear box disposed between said first and second wheels.
- 1 5. The system according to claim 1 wherein said tool assembly further comprises a multi-
2 purpose tool bar for at least one of a cultivator, a seed drill, and a sprayer kit.
- 1 6. The system according to claim 1 wherein said tool assembly further comprises a braking
2 system.
- 1 7. The system according to claim 1 wherein said tool assembly further comprises a lifting
2 mechanism.
- 1 8. An agricultural system for farming comprising:
2 a motorcycle drive unit wherein said motorcycle drive unit is adapted for removable
3 attachment to a tool assembly;

4 said tool assembly comprising a structural chassis and an axle having first and second
5 ends;

6 a first wheel disposed at said first end of said axle;

7 a second wheel disposed at said second end of said axle;

8 a transmission unit comprising a differential gear box disposed between said first and
9 second wheels;

10 a multi-purpose tool bar for at least one of a cultivator, a seed drill, and a sprayer kit
11 mounted on said structural chassis;

12 a braking system connected to at least one of said first or second wheels; and

13 a lifting mechanism.

1 9. A method of adapting a motorcycle for farming comprising:

2 removing a motorcycle drive wheel and motorcycle drive axle from a motorcycle to form
3 a motorcycle drive unit;

4 attaching a tool assembly to said motorcycle drive unit; said tool assembly comprising a
5 tool assembly axle; and

6 connecting a transmission unit for power delivery from the motorcycle drive unit to said
7 tool assembly axle, wherein said power delivery is at a reduced speed and increased torque
8 relative to the speed and torque previously delivered to the motorcycle drive axle.

1 10. A tool assembly comprising:

2 a chassis capable of being attached to an unmodified motorcycle drive unit, said chassis
3 suitable for attachment of farm implements; and

4 a transmission unit capable of being connected to an unmodified motorcycle drive unit
5 output.

1 11. The tool assembly of claim 10 wherein said transmission unit delivers power from the
2 motorcycle drive unit output to a tool assembly axle at a reduced speed and increased torque
3 relative to the speed and torque previously delivered to a motorcycle drive axle.

1 12. The tool assembly of claim 11 wherein said transmission unit includes a differential gear box.

1 13. The tool assembly of claim 12 wherein said differential gear box is located in a central region
2 of said tool assembly axle.

1 14. The tool assembly of claim 10 further comprising a lifting mechanism; the lifting mechanism
2 comprising a multi-purpose tool bar.

1 15. The lifting mechanism of claim 14 further comprising a lever and a pulley.

1 16. The tool assembly of claim 10 further comprising at least one spacer for a tool assembly track
2 width adjustment.

1 17. The tool assembly of claim 16 wherein the tool assembly track width adjustment allows
2 independent wheel-spacing adjustment.